



## WATER MANAGEMENT MONTHLY REPORT

### Information Exchange Bulletin

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### RESERVOIR OPERATION AND SYSTEM STATUS FOR MAY 2002

**HIGHLIGHTS** – Cairo stage began the month at 42.2 feet and ended at 45.6 feet and was falling rapidly. The river stage at Cairo crested at 54.95 feet on the 19th of May. Flood stage is 40 feet and 44 feet is considered major flood for this time of year. Excessive rainfall in Indiana brought Monroe reservoir into emergency spillway flow and C. M. Harden reservoir within an inch of spillway flow.

**WEATHER** – The weather during May was cool and wet. Upper air flow from the northwest brought well below temperatures for much of the month. This also kept the major frontal boundary within the Ohio River basin bringing well above normal rainfall for most of the basin. Indiana and Illinois had the heaviest rains and averaged more than twice the expected rainfall for much of that area. The only below normal rainfall areas were in Tennessee, Virginia and North Carolina. These eastern basins continue in a long term drought condition.

### TEMPERATURE AND PRECIPITATION – MAY 2002

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	56.7	-3.3	4.70	+0.90
Charleston, WV	60.5	-1.9	4.85	+0.55
Columbus, OH	58.8	-3.8	6.61	+2.73
Cincinnati, OH	59.6	-4.1	8.03	+3.44
Louisville, KY	62.4	-3.4	6.99	+2.11
Indianapolis, IN	59.7	-2.9	7.46	+3.11

Evansville, IN	63.8	-1.8	5.70	+0.69
Nashville, TN	65.7	-1.4	3.98	-1.09

**STREAMFLOW** -- Ohio River monthly average flows for May ranged from a low of 164 percent of normal at Huntington, WV to a high of 210 percent of normal at Evansville, IN. Daily flows ranged from a low of 66 percent of normal at Huntington, WV and Cincinnati, OH to a high of 366 percent of normal at Pittsburgh, PA.

The following table presents the flow data summary for May at the Ohio River Index Stations:

**FLOW DATA – MAY 2002**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	73,100	192	366	69
Huntington, WV	152,000	164	265	66
Cincinnati, OH	222,100	181	260	66
Louisville, KY	281,700	200	269	78
Evansville, IN	355,100	210	258	75
Paducah, KY	644,700	199	236	145

**RESERVOIRS** -- May started with 6.6% utilization of the total system flood control storage and ended the month at 5.3% after reaching a peak of 13.3% on May 20th. System-wide augmentation storage increased from 98.2% at the beginning of the month to 98.5% by the end of the month. Significant flood storage utilization in excess of 25% occurred at: East Branch Clarion, Union City, Conemaugh, Stonewall Jackson, Tygart, Milton, Kirwan, Cave Run, Brookville, Patoka, Rough and Barkley reservoirs, in excess of 50% at: Mosquito Creek and Cagles Mill, excess of 98% at C. M. Harden and in excess of 100% at Monroe reservoir.

The following table depicts storage change by tributary reservoir subsystem for May:

<b>CHANGE IN STORAGE</b>	<b>(ACRE-FEET)</b>
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<b>TRIBUTARY-RESERVOIR SUBSYSTEM</b>	
Allegheny-Monongahela-Beaver	-107,400
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-33,500
Twelvepole-Big Sandy-Little Sandy-Scioto	-3,200
Little Miami-Licking-Mill Creek-Great Miami	-19,700
Kentucky-Salt-Green-Wabash	+42,400
Cumberland	-9,100
<b>TOTAL</b>	<b>-130,500</b>

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